RDL

Established 1976

RDL (Meters) Ltd
Unit E2, Westfield Business Park,
Long Road, Paignton, Devon TQ4 7AU

Tel: 01803 697600 Fax: 01803 697608
Email: sales@rdlmeters.com
Website: www.rdlmeters.com

Coin and Card Meter/Timer Manufacturers

CATALOGUE 2015-2016

DUAL COIN METERS AND TIMERS
CARD METERS AND TIMERS
SINGLE AND THREE PHASE CREDIT METERS
ACCESSORIES

M100

10180/1

QC4

MT/Tokens

MT174

EM21

MCM-030

Credit Meters Prepayment Coin & Card Meters & Timers

RDL History

From 1976 RDL has supplied reconditioned meters. In order for the reconditioning to take place it entailed manufacturing new parts. RDL undertook in 1980 to convert analogue meters to a digital format. To achieve this many types of gear trains including differential gears, were manufactured to a very high standard. RDL has created "In-House" its own mould tools to replace meter parts and moulded them in RDL's moulding shop. As electronics forced a major change in the metering industry, RDL in 2005 converted an existing electronic meter to cope with RDL's current dual coin meter. We added our own integrated circuits (I.C's) thus creating the world's first electronic coin meter. RDL in 2015 has presented a new Magnetic Card Meter (MCM-030) onto the world market.

RDL Electronic Dual Coin Meters and Timers

RDL was the first in the world to develop an electronic coin meter with a traceable serial number. This meter was updated to a dual coin in 2008 and further developed in 2009 to improve the unique coin action. This coin action can cope with different currencies and also RDL's token coins. The new 12 sided coin will operate on all RDL Meters that have £1 acceptance.

RDL Electronic Card Meters and Timers

1st July 2015 RDL launched its first new Magnetic Card Meter/Timer due to the high demand and low availablity from other sources. This new meter has many fine features. The landlord can alter it to a timer from a meter and vice versa. It is designed to use disposable magnetic cards. The advantage is the landlord receives the money before any of his electricity has been used. It has a traceable serial number, no external cover seals and an extension terminal cover has been designed by RDL to cover the incoming supply cables.

Other RDL Products Available

Ask RDL for the 2015 catalogue. Whilst viewing this catalogue you will be sure to find a meter to suit your requirements. RDL also has a very wide range of meter accessories and can offer systems for Energy Measurement, Prepayment of Electricity, Smart Metering, Solar PV Generation, Multi Function Metering and Timers.

Index

Contents **Page**

RDL Meters Limited 2
General Specifications 4
Harmonised Colours 4
About Us 5

Electronic Coin Meters and Timers

Electronic Coin Meters and Timers 6

Electronic Card Meters and Timers

Electronic Card Meters and Timers 7

Recalibrated and Tested Meters

Single Phase Meters 8
Three Phase Meters (Direct Connection) 9
Three Phase Meters (Current Transformer Operated) 9

New Meters

Single Phase Meters 10
Three Phase Meters (Direct Connection) 10
Three Phase Meters (Current Transformer Operated) 11

Accessories

Prepayment Cards 12
Tokens 12
Seals, Wires and Sealing Pliers 13
Time Switches 13
Current Transformers 14

Terms and Conditions 15

General Specifications

Household Mains Electric Supplies

Japan 100 V, North America 110 V & UK, Europe, Asia, Africa 230 V.

All kWh meters manufactured by RDL are for single phase and three phase supplies from the UK national grid and single phase and three phase supplies throughout Europe.

Single Phase 230V +10% / -6% at 50Hz

Three Phase 400V +10% / -6% at 50Hz

Dual Tariff Meters

In order for single and three phase reconditioned meters to record two separate readings, we can supply a time switch for this operation.

Installing Three Phase Meters with Current Transformers

In order to install your meter and current transformers, it is necessary to put three separate slide lock fuses on each of the phases supplying the voltage to the meter. This has to be installed to the current IEE regulations.

Current Transformers: Solid and Split Core

When unable for a subject supply cable to be disconnected, split core current transformers are a perfect alternative.

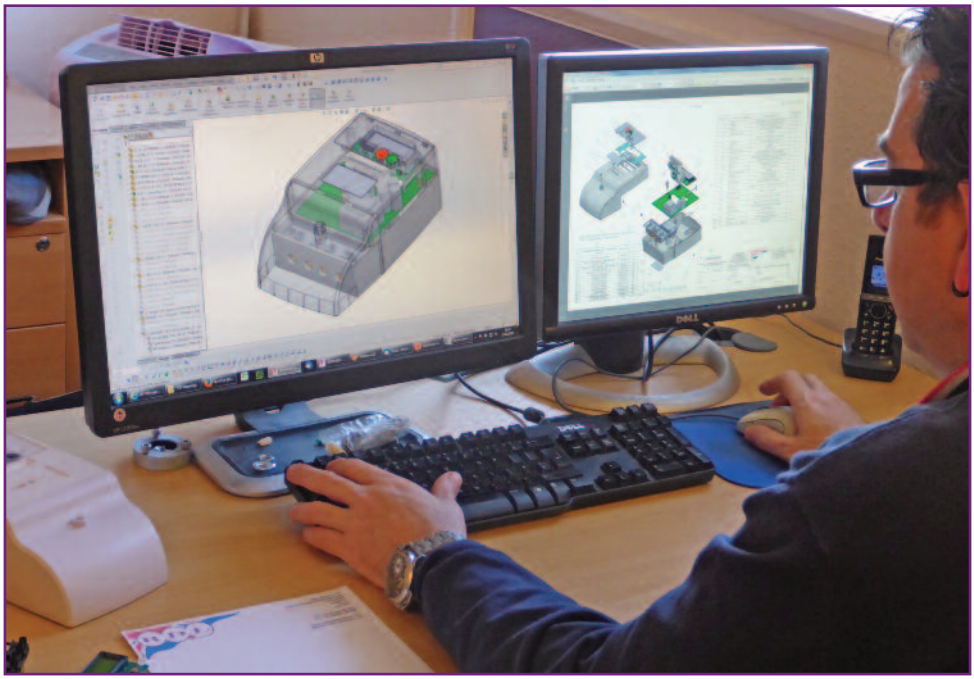
Harmonised Colours and Alphanumeric Marking for Wiring and Terminology

AC Power Circuit	Alphanumeric	Colour
Phase of single phase circuit	L	RED becomes BROWN
Neutral of single or three phase circuit	N	BLACK becomes BLUE
Phase 1 of three phase ac circuit	L1	RED becomes BROWN
Phase 2 of three phase ac circuit	L2	YELLOW becomes BLACK
Phase 3 of three phase ac circuit	L3	BLUE becomes GREY

About Us

RDL has in the past created credit and prepayment meters by design and constant improvement. This has always been recognised when reconditioning has taken place.
The design of mould and press tools to create replacement components rather than repair existing components has been a feature of RDL from 1978 onwards. These 'firsts' are:-

- Converting analogue display meters to digital.
- Replacing cases and bases on meters.
- Replacing rusty coin boxes to new coin boxes
- Re-switching meters when switches have passed their efficient state.
- Creating gearing to convert pounds, shillings and pence to decimalization currency.
- Whole replacement of electro-mechanical components.
- RDL do not paint meters for cosmetic effect.
- RDL uses the most advanced technical advantages for design, including 3D Print for proto-copying.



Coin Meters and Timers

(Available in sterling, euros and dollars)

COIN METERS WITH LCD READOUT

Model Number	Description
M100S	100A £1 and £2 coin operated electronic meter
M100E	100A €1 and €2 coin operated electronic meter
M100D	100A $1 and $2 coin operated electronic meter
MT100	100A token operated electronic meter

M100S

M100 Features

- The landlord can adjust the rate (pence per kWh) in accordance with current electricity charges.
- The LED shown on the front of the meter will flash when a load is connected at 1000 pulses per kWh.
- The meter comes with a three year guarantee and can be used in applications such as flats, bedsits, chalets, caravans, etc.
- Supplied with user manual.

Dimensions: H173mm x W255mm x D123mm
Weight: 1.756kg

COIN TIMERS WITH LCD READOUT

Model Number	Description
R447S	100A £1 and 20p coin operated electronic timer
R447E	100A €1 and €2 coin operated electronic timer
R447D	100A $1 and $2 coin operated electronic timer
RT447	100A token coin operated electronic timer

R447S

R447 Features

- The landlord can adjust the rate (minutes per coin) and the LED shown on the front of the meter will flash when a load is connected at 1000 pulses per kWh.
- The timer also comes with a three year guarantee and can be used for applications such as washing machines, tumble dryers, heaters, lighting, air-conditioning, etc.
- Supplied with user manual.

Dimensions: H173mm x W255mm x D123mm
Weight: 1.756kg

Card Meters and Timers

(Available in sterling, euros and dollars)

CARD METERS AND TIMERS WITH LCD READOUT

Model Number	Description
MCM-030S	100A Sterling dual tariff card meter with internal time switch
MCM-030E	100A Euro dual tariff card meter with internal time switch
MCM-030D	100A Dollar dual tariff card meter with internal time switch

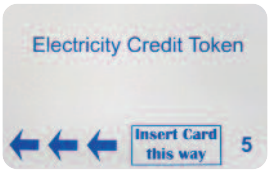
MCM-030 Meter with Timer operational mode

MID APPROVAL NUMBER: 0120/SGS0184

A new RDL single phase card Meter/Timer with dual rate tariff and LCD readout. It has a maximum current rating of 100A. Token Cards can be purchased from RDL direct in denominations of 1 (RED), 5 (BLUE) and 10 (GREEN), these are unique with their own RDL code number. Included with the MCM-030 is a programming command card and user manual with specification and operating settings. The MCM-030 will allow the landlord to;

- Alter the meter to a timer.
- Adjust the rate.
- Adjust the standing charge.
- Alter the amount of Emergency credit.
- Enter minutes per token card when in timer mode.
- Tournament override facility when in timer mode.
- For increased security RDL has designed the Meter/Timer to have no visible seals.
- An extension terminal cover has been designed to cover the incoming supply cables.
- For security reasons we request that you register with us and provide a password, this will allow you to purchase token cards with confidence and security in mind.
- The MCM-030 comes with a three year guarantee.
- Supplied with user manual.

Dimensions: H222mm x W135mm x D80mm
Weight: 1.011kg



Recalibrated and Tested Meters

SINGLE PHASE METERS *(N.B. QC models may vary)*

Model Number	Description
KC6	100A single phase electronic meter with digital display
SP2	100A single phase electronic meter with LCD display
SP2/1	100A single phase electronic meter with LCD display and Isolator Switch
QC4	60A single phase electro-mechanical meter with digital display
QC5	100A single phase electro-mechanical meter with digital display
QC6	60A single phase electro-mechanical meter with analogue display
QC7	80A single phase electro-mechanical meter with digital display
QC8	100A single phase electro-mechanical dual tariff meter with digital display

KC6

SP2

QC4

QC5

QC7

QC8

Recalibrated and Tested Meters

THREE PHASE METERS (Direct Connection)

(N.B. Models may vary and analogue meters are subject to availability)

Model Number	Description
3P60DIG	60A three phase electro-mechanical meter with digital display
3P100ANL	100A three phase electro-mechanical meter with analogue display
3P100DIG	100A three phase electro-mechanical meter with digital display
3P100DIG/DT	100A three phase electro-mechanical dual tariff meter with digital display
3P100DIG/E	100A three phase electronic meter with digital display

3P100ANL

3P100DIG

3P100DIG/DT

3P100DIG/E

THREE PHASE METERS (CT Operated)

(N.B. Models may vary and are subject to availability)

Model Number	Description
RIT30	150A electro-mechanical meter with digital (cyclometric) display
RIT40	200A electro-mechanical meter with digital (cyclometric) display
RIT60	300A electro-mechanical meter with digital (cyclometric) display
RIT160	800A electro-mechanical meter with digital (cyclometric) display

RIT30

RIT40

RIT60

RIT160

New Meters

SINGLE PHASE METERS

Model Number	Description with LCD Readout
DDS353	45A single phase electronic meter (DIN rail mounted)
DDS353C	100A single phase electronic meter (DIN rail mounted)
ME162	100A single phase electronic meter with import/export energy reading and pulse output
ME162 D/T	100A single phase electronic dual tariff meter with import/export energy reading and pulse output (internal time switch)
SPE110	100A single phase meter with pulse output

DDS353

DDS353C

ME162

SPE110

THREE PHASE METERS (Direct Connection)

Model Number	Description with LCD Readout
DTS353	100A three phase direct connection electronic meter with pulse output (DIN rail mounted)
MT174 DC	120A three phase direct connection electronic meter with import/export energy reading, pulse and RS485 output
MT174 DC/DT	120A three phase direct connection electronic dual tariff meter import/export energy reading, pulse and RS485 output (internal time switch)

DTS353

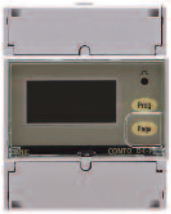
MT174 DC

MT174 DC/DT

New Meters

THREE PHASE METERS (CT Operated)

Model Number	Description with LCD Readout
CE4ST14A2	Three phase CT operated electronic meter with pulse output, 70mm wide (DIN rail mounted)
CE4ST14A4	Three phase CT operated electronic meter with RS485 output, 70mm wide (DIN rail mounted)
EM21	Three phase CT operated electronic meter with pulse output (can be DIN rail or panel mounted)
EM368-21	Three phase CT operated electronic meter with pulse output, 96x96mm flush panel mounted
MF7FTU0046	Three phase CT operated electronic multi-function power monitor with pulse output, 72x72mm flush panel mounted
MFM384-C23	Three phase CT operated electronic multi-function power monitor with pulse and RS485 output, 96x96mm flush panel mounted
MT174 CT	Three phase CT operated electronic meter with import/export energy reading, pulse and RS485 output
MT174 CT/DT	Three phase CT operated electronic dual tariff meter with import/export energy reading, pulse and RS485 output



CE4ST14A2

CE4ST14A4

EM21

EM368-21

MF7FTU0046

MFM384-C23

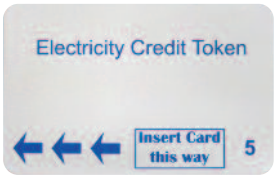
MT174 CT

MT174 CT/DT

Accessories

PREPAYMENT CARDS FOR RDL ONLY CARD METERS

Model Number	Description
1/100	Pack of 100 '1' disposable prepayment cards to use with an RDL cardmeter
5/100	Pack of 100 '5' disposable prepayment cards to use with an RDL cardmeter
10/100	Pack of 100 '10' disposable prepayment cards to use with an RDL cardmeter
1/250	Pack of 250 '1' disposable prepayment cards to use with an RDL cardmeter
5/250	Pack of 250 '5' disposable prepayment cards to use with an RDL cardmeter
10/250	Pack of 250 '10' disposable prepayment cards to use with an RDL cardmeter
1/500	Pack of 500 '1' disposable prepayment cards to use with an RDL cardmeter
5/500	Pack of 500 '5' disposable prepayment cards to use with an RDL cardmeter
10/500	Pack of 500 '10' disposable prepayment cards to use with an RDL cardmeter
1/1000	Pack of 1000 '1' disposable prepayment cards to use with an RDL cardmeter
5/1000	Pack of 1000 '5' disposable prepayment cards to use with an RDL cardmeter
10/1000	Pack of 1000 '10' disposable prepayment cards to use with an RDL cardmeter
CMPC	A programming command card to use with an RDL cardmeter which allows the landlord to set the rate, standing charge, emergency credit, etc



TOKENS

Model Number	Description
M/T Token	M/T Token to operate the MT100 and RT447 range of meters and timers

M/T Token

Accessories

SEALS AND WIRE

Model Number	Description
10180/1	Pack of 20 round lead seals and one metre of wire
10180/2	Pack of 50 round lead seals and three metres of wire
10181	Professional quality sealing pliers for use with lead seals

10180/1

10180/2

10181

TIME SWITCHES

Model Number	Description
10171	A reconditioned 24 hour one on, one off time switch which uses the auxiliary (2A) to control dual tariff meters

10171

Current Transformers (C.T's)

SOLID CORE CURRENT TRANSFORMERS

Model Number	Description
100CT	A set of three 100A (5A secondry) solid core current transformers
150CT	A set of three 150A (5A secondry) solid core current transformers
200CT	A set of three 200A (5A secondry) solid core current transformers
300CT	A set of three 300A (5A secondry) solid core current transformers
400CT	A set of three 400A (5A secondry) solid core current transformers
600CT	A set of three 600A (5A secondry) solid core current transformers
800CT	A set of three 800A (5A secondry) solid core current transformers
1000CT	A set of three 1000A (5A secondry) solid core current transformers

SPLIT CORE CURRENT TRANSFORMERS

Model Number	Description
100SCT	A set of three 100A (5A secondry) split core current transformers
150SCT	A set of three 150A (5A secondry) split core current transformers
200SCT	A set of three 200A (5A secondry) split core current transformers
300SCT	A set of three 300A (5A secondry) split core current transformers
400SCT	A set of three 400A (5A secondry) split core current transformers
600SCT	A set of three 600A (5A secondry) split core current transformers
800SCT	A set of three 800A (5A secondry) split core current transformers
1000SCT	A set of three 1000A (5A secondry) split core current transformers

LINKED CURRENT TRANSFORMERS

Model Number	Description
100LCT	A three phase linked 100A (5A secondry) solid core current transformer
200LCT	A three phase linked 200A (5A secondry) solid core current transformer
400LCT	A three phase linked 400A (5A secondry) solid core current transformer
600LCT	A three phase linked 600A (5A secondry) solid core current transformer

Solid Core

Split Core

Linked Core

Terms and Conditions of Sale

(Please note that this list is not exhaustive)

RDL reserves the right to cancel, alter or add to the catalogue without prior notice.
Help Desk 01803 697600

Value Added Tax

Goods and carriage supplied from this catalogue are exclusive of Value Added Tax (VAT), which is charged at the current rate.

Guarantee

- The instrument is guaranteed from date of purchase from RDL providing that the Guarantee Conditions (shown below) are adhered to.
- If found faulty, our instruments are repaired or replaced free of charge.
- The guarantee will not cover consequential losses.

Guarantee Conditions

The instrument will NOT be covered by the above guarantee if:

- One or both of the seals on the case have been removed.
- The instrument has not been installed by a competant, qualified electrician to standards that satisfy the requirements of current Institute of Electrical Engineers (IEE).
- The instrument has been incorrectly installed.
- The instrument has been subject to a current (A) and/or voltage (V) exceeding its maximum rating.
- The instrument has been positioned where it is likely to come into contact with water, adverse heat, steam, extreme dampness or any other substance that will damage the meter or cause the instrument to malfunction.
- The instrument has been tampered with to obtain free electricity.
- The instrument has been installed more than once from leaving RDL.

Conditions of Acceptance

Goods cannot be returned for credit once they have been accepted and signed for after three working days as 'DAMAGED IN TRANSIT'. If the goods are found to be damaged in transit then RDL must be notified immediately on 01803 697600.

Payment Terms

30 days net for account holders only. All others will be proforma.

Terms

These terms supercede all previous terms and conditions.
Full terms and conditions are available from RDL on request.

RDL

Coin and Card Meter/Timer Manufacturers

Established 1976

RDL (Meters) Ltd.

Unit E2, Westfield Business Park,
Long Road, Paignton, Devon TQ4 7AU

Tel: 01803 697600 Fax: 01803 697608

Email: sales@rdlmeters.com

Website: www.rdlmeters.com

PRODUCTS AND DESCRIPTIONS CORRECT AT TIME OF PRINTING. JULY 2015